

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/798,469	03/11/2004	Yun-Sang Lee	SAM-0536	6116
7	590 08/03/2006		EXAMINER	
Steven M. Mi	lls	NGUYEN, VAN THU T		
MILLS & ONE	ELLO LLP			
Suite 605		ART UNIT	PAPER NUMBER	
Eleven Beacon	Street	2824		
Boston, MA	02108		DATE MAILED: 08/03/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)				
		10/798,469	LEE ET AL.				
		Examiner	Art Unit				
		VanThu Nguyen	2824				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) 又	Responsive to communication(s) filed on 30 Ju	ne 2006					
·		action is non-final.					
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠	4)⊠ Claim(s) <u>1-6,8,10-12,14,15 and 17-22</u> is/are pending in the application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
6)⊠	Claim(s) 11 and 12 is/are rejected.						
7)🛛	Claim(s) <u>1-6, 8, 10, 14-15, 17-22</u> is/are objected to.						
8)[Claim(s) are subject to restriction and/or	election requirement.					
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>11 March 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) 🔲 Infom	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	5) Notice of Informal Pa 6) Other:)-152)			

Application/Control Number: 10/798,469 Page 2

Art Unit: 2824

DETAILED ACTION

1. Amendment filed on 06/30/2006 has been entered and considered.

2. Claims 1-6, 8, 10-12, 14-15, 17-22 are pending. Claims 21-22 are newly added. Claims 7, 9, 13, 16 were previously cancelled.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 11-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Ooishi, U.S. Patent No. 6,519,192 (Ooishi).

Regarding claim 11, Ooishi discloses, in FIGS. 1-2 and 4, a method for writing and reading data to and from a semiconductor memory device comprising the steps of:

- transmitting data input through a first pad to a write line pair during a write
 operation (transmitting data from I/O terminals to NWDB and /NWDB), and data
 output from a memory cell array to a read line pair during a read operation
 (transmitting data from memory cell array 50 to NRDB and /NRDB); and
- transmitting data transmitted to the write line pair to the memory cell array during a write operation (transmitting data from NWDB and /NWDB to memory cell array 50), and outputting data transmitted to the read line pair through a second pad during a read operation (transmitting data from NRDB and /NRDB to I/O

Application/Control Number: 10/798,469

Art Unit: 2824

terminals), wherein the write operation and the read operation are performed simultaneously (see column 6, lines 39-47, and column 16, lines 57-61).

Regarding claim 12, Ooishi further discloses the write operation and the read operation are performed independently.

Allowable Subject Matter

5. Claims 1-6, 8, 10, 14-15, 17-22 are allowed.

Applicants' remark make the record clear for reason of allowance.

Response to Arguments

6. Applicant's arguments filed 06/30/2006 have been fully considered but they are not persuasive.

Regarding claims 11-12, Ooishi teaches the read and write operation being performed simultaneously and independently in column 6, lines 39-47, and column 16, lines 57-61.

Conclusion

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

Application/Control Number: 10/798,469 Page 4

Art Unit: 2824

however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to VanThu Nguyen whose telephone number is (571) 272-1881. The examiner can normally be reached on Monday-Thursday, 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms can be reached on (571) 272-1869. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Monday, July 31, 2006

VanThu Nguyen
Primary Examiner
Art Unit 2824